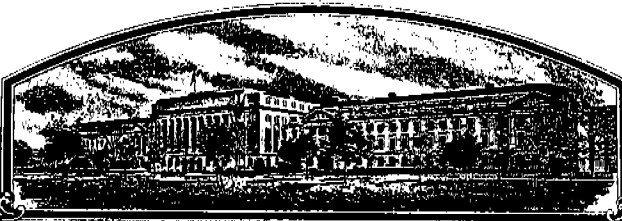


No.

7700024



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Coker's Pedigreed Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Coker 304'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 21st day of December in the year of our Lord one thousand nine hundred and seventy-eight

Attest

[Signature]

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

[Signature]
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY Coker 68-304 or Coker 8304		1b. VARIETY NAME Coker 304		FOR OFFICIAL USE ONLY PV NUMBER 7700024	
2. KIND NAME Cotton		3. GENUS AND SPECIES NAME Gossypium hirsutum		FILING DATE 1-4-77 TIME 2:30 P.M.	
4. FAMILY NAME (BOTANICAL) Malvaceae		5. DATE OF DETERMINATION January, 1974		FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00 DATE 1-4-77 8-19-77 8-4-78	
6. NAME OF APPLICANT(S) Coker's Pedigreed Seed Co.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 340 Hartsville, S.C. 29550		8. TELEPHONE AREA CODE AND NUMBER 803-332-7531	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION South Carolina		11. DATE OF INCORPORATION June 12, 1918	
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers: Henry W. Webb Director, Cotton Division Coker's Pedigreed Seed Company P. O. Box 340 Hartsville, S.C. 29550					
13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED: <input checked="" type="checkbox"/> 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> 13B. Exhibit B, Novelty Statement <input checked="" type="checkbox"/> 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) <input checked="" type="checkbox"/> 13D. Exhibit D, Additional Description of the Variety.					
14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes" answer 14B and 14C below.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
14B. Does the applicant(s) specify that this variety be limited as to number of generations? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		14C. If "Yes" to 14B, how many generations of production beyond breeder seed? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 1-Year			
15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. December 23, 1976 (DATE) Robert R. Coker (SIGNATURE OF APPLICANT) Robert R. Coker, President 1 (SIGNATURE OF APPLICANT)					

13 A. EXHIBIT A, ORIGIN AND BREEDING HISTORY OF VARIETY - COKER 304

<u>Stage</u>	<u>Year</u>	<u>Activity</u>
1	1948	Cross; Coker 100 Staple X Deltapine 15.
2	1950-1959	Line selection program thru successive generations produced the strain Coker 60-111.
3	1960-1966	Line selection in Coker 60-111 produced the strain Coker 66-115, later named Coker 310.
4	1966-1968	Line selection in Coker 66-115 produced the strain Coker 68-304, now named Coker 304.
5	1968-1974	Coker 68-304 evaluated in replicated yield trials and disease screening trials across the Cotton Belt. Concurrent seed increase was accomplished to produce breeder seed during the 1975 season in South Carolina. Continued reselection within Coker 68-304 has produced maintenance strains which will be used to produce breeder seed in years ahead.
6	1976	Produced Foundation seed of Coker 304 under contract in North Carolina for distribution to farmers for 1977 plantings.

Variants: Occasional variants are to be found in any cotton variety due to frequency of natural cross pollination. However these are at a minimum in Coker 304 due to the long period of selection and reselection and relatively high degree of homozygosity.

EXHIBIT A.

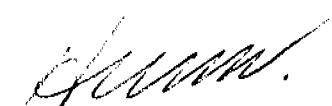
Application for Plant Variety Protection
 Coker 304 Cotton Variety
 Coker's Pedigreed Seed Company
 December 22, 1976

SUPPLIMENT TO EXHIBIT "A", COTTON APPLICATION NO. 7700024, "COKER 304"

SUBJECT: VARIETY STABILITY:

As stated in original Exhibit A, Coker 304 is highly stable genetically due to a prolonged and intensive period of pure line selection.

We have not observed significant variants and are confident that this variety meets all requirements for stability in accord with inspection approvals by Coker's production personnel and various State Seed Certification agencies.


Application for Plant Variety Protection
Coker's Pedigreed Seed Company
August 15, 1977

13 B. EXHIBIT B, NOVELTY STATEMENT OF COKER 304 COTTON VARIETY

Novelty of Coker 304, is based on the following unique characters or combination of characters which are highly significant in the economics of Cotton production in the primary areas of adaptation of Coker 304.

Coker 304 most closely resembles Coker 310, except that it is characterized by:

1. Increased earliness of maturity to the extent of approximately 4 days earlier harvest, or about 4% higher first picking percentage.
2. Gin Turnout or fiber percentage of Coker 304, averages 1 - 1 1/2 percentage points higher than Coker 310.
3. This increase in earliness and fiber percentage in Coker 304 is attained without sacrifice of the superior combination of yield and overall quality which characterizes the Coker 310 family, from which Coker 304 is derived.

3-YEAR PERFORMANCE SUMMARY, REPLICATED COTTON YIELD TRIALS,
COKER'S PEDIGREED SEED COMPANY, HARTSVILLE, SOUTH CAROLINA, 1974-76

Variety	Lint	Gin	First ^{1/}	Fiber
	Yields	Turnout	Picking	Strength
	(lbs/A)	(%)	(%)	(Mpsi)
1. Coker 310	865	38.9	77	85
2. Coker 304	900	40.1	81	87

^{1/} Earliness data expressed as % first picking is generally translated directly into days difference in maturity.

Note: Plant height data originally shown as a novel character was not available for the entire three year period so was deleted from Exhibit B.

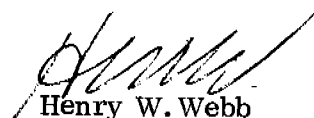

Henry W. Webb
Director Cotton Division

EXHIBIT B. (Revised August 17, 1977)
Application for Plant Variety Protection
Coker 304 Cotton Variety
Coker's Pedigreed Seed Company

COKER'S PEDIGREED SEED COMPANY
HARTSVILLE, S. C.

THREE YEAR DATA SUMMARY, HARTSVILLE, SOUTH CAROLINA, 1974-76

Variety	Gin Turnout - %			
	1974	1975	1976	Average
Coker 310	39.5	39.5	37.6	38.9
Coker 304	41.3	41.1	37.9	40.1

Variety	Earliness: First Picking - %			
	1974	1975	1976	Average
Coker 310	75	75	82	77
Coker 304	80	79	83	81

SUPPLEMENT TO EXHIBIT "B" COTTON APPLICATION NO. 7700024, "COKER 304"

COKER'S PEDIGREED SEED COMPANY
HARTSVILLE, S. C.

EARLINESS COMPARISONS OF COKER 304, COKER 310 AND OTHER COKER VARIETIES
FROM COKER'S VARIETY TEST, HARTSVILLE, S. C., 1974-1976

Table I: EARLINESS: PERCENT FIRST PICKING

Variety	1974		1975		1976		Average	
	Loc.-1	Loc.-2	Loc.-1	Loc.-2	Loc.-1	Loc.-2	Percent	Diff. (%)
Coker 304	84.8	77.1	81.3	75.9	76.3	87.8	80.6	---
Coker 310	83.0	69.5	78.6	73.1	73.8	84.5	77.1	-3.5
Coker 417	82.2	73.0	78.4	73.0	75.4	86.0	78.0	-2.6
Coker 201	82.8	72.2	78.0	78.0	70.7	84.5	77.7	-2.9
L. S. D.							2.05	
							2.84	
C. V.							2.13	

Table II: EARLINESS: YIELD LINT FIRST PICKING (lbs./Acre)

Variety	1974		1975		1976		Average	
	Loc.-1	Loc.-2	Loc.-1	Loc.-2	Loc.-1	Loc.-2	lbs./A	Diff. (lbs.)
Coker 304	1028	574	831	515	840	865	776	----
Coker 310	920	473	751	455	821	887	718	-58
Coker 417	835	478	739	483	767	794	683	-93
Coker 201	905	444	750	467	648	876	682	-94
L. S. D.							54	
							75	
C. V.							6.1	

Note: Each location illustrated in above data consisted of four to six replications.

July 11, 1978

OBJECTIVE DESCRIPTION OF VARIETY
COTTON (GOSSYPIMUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Coker's Pedigreed Seed Co.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P. O. Box 340
Hartsville, S.C.

FOR OFFICIAL USE ONLY

PVPO NUMBER

VARIETY NAME OR TEMPORARY
DESIGNATION

Coker 304

(C-68-304 or C-8304)

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. SPECIES:

1 = GOSSYPIMUM HIRSUTUM

2 = GOSSYPIMUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adopted, 2 = Adopted):

EASTERN

DELTA

CENTRAL

HIGH PLAINS

EL PASO AREA

WESTERN LOW HOT VALLEYS

SAN JOAQUIN

OTHER (Specify)

3. MATURITY (50% Open Bell):

NO. OF DAYS EARLIER THAN

1 = COKER 310

2 = DELTAPINE 16

3 = STONEVILLE 213

4 = PAYMASTER 111

5 = ACALA 1517-70

6 = ACALA SJ-1

NO. OF DAYS LATER THAN

7 = LANKART 57

8 = OTHER (Specify)

4. PLANT HABIT:

1 = SPREADING

2 = INTERMEDIATE

3 = COMPACT

1 = FOLIAGE SPARSE

2 = DENSE

3 = OTHER (Specify) Med. dense

5. PLANT HEIGHT:

CM. SHORTER THAN

1 = COKER 310

2 = DELTAPINE 16

3 = STONEVILLE 213

4 = PAYMASTER 111

5 = ACALA 1517-70

6 = ACALA SJ-1

CM. TALLER THAN

7 = LANKART 57

8 = OTHER (Specify)

6. MAIN STEM:

1 = LAX

2 = ASCENDING

3 = ERECT

CM. TO FIRST
FRUITING BRANCHNO. OF NODES TO FIRST FRUITING BRANCH
(from cotyledonary node)

7. LEAF:

CM. WIDTH OF
WIDEST LEAVES
AT MATURITY

8. LEAF PUBESCENCE:

2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF)

1 = GLABROUS (HAIRS AS SPARSE AS D₂ SMOOTH)

3 = PUBESCENT (STONEVILLE 213)

4 = HEAVY PUBESCENCE (H₁ OR H₂)

5 = OTHER (Specify)

9. LEAF COLOR:

1 = VIRESCENT YELLOW

2 = LIGHT GREEN

3 = DARK GREEN (Acala-442)

4 = RED

5 = OTHER (Specify)

10. LEAF TYPE:

1 = NORMAL

2 = OKRA

3 = SUPER OKRA

4 = OTHER (Specify)

11. FLOWER:

1 = NECTARILESS

2 = NECTARIED

Petals:

1 = CREAM

2 = YELLOW

Pollen: 1 = CREAM

2 = YELLOW 3 = Mixed

12. FRUITING BRANCH TYPE:

1 = CLUSTER

2 = SHORT

3 = NORMAL

1 = DETERMINATE

2 = INDETERMINATE 3. Intermediate

13. GOSSYPOL CONDITION:

1 = GLANDLESS

2 = REDUCED GLANDS

3 = NORMAL GLANDS

1 = NORMAL BUD GOSSYPOL

2 = HIGH BUD GOSSYPOL

7

14. SEEDS:

±

SEED INDEX

(Fuzzy seed basis)

Seed Fuzz:

1 = SPARSE (GREGG 35)

2 = MODERATE (DPL-16)

3 = HEAVY (ACALA SJ-1)

4 = OTHER (Specify)

Mod.-Hvy.

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, COKER'S PEDIGREED SEED COMPANY, a South Carolina corporation ("Coker's"), having its offices at 900 Darlington Highway, Hartsville, South Carolina 29550, has adopted and used and is the sole and exclusive owner of certain United States Plant Variety Protection Certificates and similar rights under laws of countries other than the United States as listed in Exhibit A hereto:

WHEREAS, COKER'S PEDIGREED SEED CO. and NORTHRUP KING CO., a Delaware corporation ("NK"), have entered into an Asset Purchase Agreement, dated July 20, 1988, providing for the purchase and sale of substantially all of the assets and business of Coker's and the assumption of certain of Coker's liabilities and obligations by NK; and

WHEREAS, NK desires to acquire the right, title and interest in, to and under the Plant Variety Protection Certificates listed on Exhibit A hereto and the pending applications hereto (collectively, the "Plant Variety Protection Certificates").

2

Winter Oat Varieties

<u>Variety Name</u>	<u>U.S. Plant Variety Certificate Number</u>	<u>Issue Date</u>	<u>Term (Yrs.)</u>
Coker 227	7500007	Oct. 20, 1977	17
Coker 716	7900003	Dec. 28, 1978	17
Coker 820	8400059	June 30, 1987	18
Coker 234	7500008	Oct. 26, 1977	17
Four Twenty Two	7700085	Apr. 12, 1979	17
Big Mac	8200121	Aug. 19, 1982	18
Mesquite	8200122	Aug. 19, 1982	18

Tobacco Varieties

Coker 347	72022	Oct. 27, 1976	17
Coker 411	72023	Oct. 27, 1976	17
Coker 86	7600004	Oct. 27, 1976	17
Coker 48	7800008	Sept. 20, 1978	17
Coker 51	8100048	Feb. 18, 1982	18
Coker 176	8300056	Sept. 29, 1983	18
Coker 206	8500040	Apr. 30, 1986	18
Coker 371 Gold	8700049	Sept. 30, 1987	18

Cotton Varieties

Coker 310	7100021	Jan. 18, 1974	17
Coker 304	7700024	Dec. 21, 1978	17
Coker 420	7900087	Jan. 29, 1980	17
Coker 315	8000087	Dec. 18, 1980	17

**ASSIGNMENT OF FOREIGN AND DOMESTIC PATENTS AND
PLANT VARIETY REGISTRATIONS AND PROTECTION CERTIFICATES**

WHEREAS, NORTHRUP KING CO., a Delaware corporation, doing business at 7500 Olson Memorial Highway, Golden Valley, Minnesota 55427 ("ASSIGNOR"), owns, is licensed to or otherwise has the right to use the cotton seed lines listed in Schedule 1.2 hereto (the "Varieties") and in the germplasm related to the Varieties and in other cotton seed strains and germplasm in the United States and abroad (the "Germplasm") for which patents, plant variety protection certificates, breeder's rights certificates, seed registrations, seed certifications (collectively, the "Applications") have been filed in the United States and abroad.

AND WHEREAS, STONEVILLE PEDIGREED SEED COMPANY, a Mississippi corporation doing business at Old Leland Road, Stoneville, Mississippi 38776 ("ASSIGNEE") desires to acquire the entire right, title and interest in and to the Varieties and the Germplasm and the said Applications:

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, does hereby acknowledge that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said Applications, and the said Applications and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which have been and may hereafter be filed for the Varieties or the Germplasm in any country or countries foreign to the United States, and all Letters Patent which may be granted for the Varieties or the Germplasm in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, such official of the United States whose duty it is to issue plant variety protection certificates, and any Official of any country or countries foreign to the United States whose duty it is to issue patents, plant variety protection certificates, breeder's rights certificates, seed registrations and seed certifications to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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(C1)

05/21/90

AND ASSIGNOR HEREBY covenants and agrees that ASSIGNOR will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Varieties and the Germplasm and said Applications, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said Varieties and Germplasm in all countries.

IN TESTIMONY WHEREOF, ASSIGNOR hereunto sets its hand and seal this 30th day of May, 1990.

NORTHROP KING CO.,
a Delaware corporation

(corporate seal)

By: *Kent Schulze*

Title: President + CEO

State of Minnesota

)
) ss.
)

County of Hennepin

On this 30th day of May, in the year 1990, before me, the undersigned, a Notary Public for the State of Minnesota, personally appeared to me Kent Schulze, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within instrument as President + CEO of Northrup King Co. and acknowledged to me that he executed it as a free act on behalf of Northrup King Co. with authority to do so.

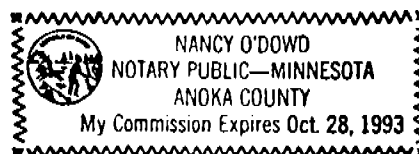
(Notarial Seal)

Nancy A. O'Dowd

Notary Public

My Commission Expires:

CDMOBLR1.EXH
(C1)
05/21/90



SCHEDULE 1.2**Cotton Varieties**

<u>Variety Name</u>	<u>U. S. Plant Variety Certificate Number</u>	<u>Issue Date</u>
Coker 130	Applied for	
Coker 139	8700070	12/18/87
Coker 208	8300082	09/29/83
Coker 304	7700024	12/21/78
Coker 308	None	
Coker 310	7100021	01/18/74
Coker 315	8000087	12/18/80
Coker 320	Applied for	
Coker 420	7900087	01/29/80
Coker 3131	8100019	09/24/81
Exp. 84-828	None	
Exp. 610-8907	None	
KC-311	Applied for	
KC-380	8700069	06/30/87
McNair 210	7100090	06/24/74
McNair 220	7600077	07/19/77
McNair 235	None	
McNair 511	7200095	05/21/74
McNair 612	7400023	03/06/74

**ASSIGNMENT OF FOREIGN AND DOMESTIC PATENTS AND
PLANT VARIETY REGISTRATIONS AND PROTECTION CERTIFICATES**

WHEREAS, SANDOZ LTD., ("ASSIGNOR"), is the owner of all right, title and interest in the cotton seed lines listed in Schedule 1.2 hereto (the "Varieties") and in the germplasm related to the Varieties and in other cotton seed strains and germplasm which it has licensed to or otherwise given Northrup King Co., its wholly owned subsidiary, the right to use in the United States and abroad (the "Germplasm") for which patents, breeder's rights certificates, seed registrations, seed certifications (collectively, the "Applications") have been filed in the United States and abroad.

AND WHEREAS, STONEVILLE PEDIGREED SEED COMPANY, a Mississippi corporation doing business at Old Leland Road, Stoneville, Mississippi 38776 ("ASSIGNEE") desires to acquire the entire right, title and interest in and to the Varieties and the Germplasm and the said Applications:

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, does hereby acknowledge that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said Applications, and the said Applications and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which have been and may hereafter be filed for the Varieties or the Germplasm in any country or countries foreign to the United States, and all Letters Patent which may be granted for the Varieties or the Germplasm in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States whose duty it is to issue patents, plant variety protection certificates, breeder's rights certificates, seed registrations and seed certifications to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that ASSIGNOR will communicate to the said ASSIGNEE, its successors, legal representa-

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1)

05/13/90

tives and assigns, any facts known to ASSIGNOR respecting the Varieties and the Germplasm and said Applications, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said Varieties and Germplasm in all countries.

IN TESTIMONY WHEREOF, ASSIGNOR hereunto sets its hand and seal this 30th day of May, 1990.

SANDOZ LTD.

(corporate seal)

By: Edward C. Resler
Title: ATTORNEY IN FACT UNDER POWER OF ATTORNEY DATED MAY 30, 1990

State of Minnesota

)

) SS.

County of Hennepin

)

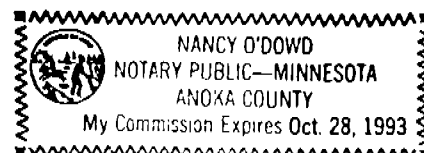
On this 30th day of May, in the year 1990, before me, the undersigned, a Notary Public for the State of Minnesota, personally appeared to me Edward C. Resler, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within instrument as the duly authorized agent of Sandoz Ltd. and acknowledged to me that he executed it as a free act on behalf of Sandoz Ltd. with authority to do so.

(Notarial Seal)

Nancy A. O'Dowd

Notary Public

My Commission Expires:



CDM0BLR1.EXH
(C1)
05/21/90

SCHEDULE 1.2**Cotton Varieties**

<u>Variety Name</u>	<u>U. S. Plant Variety Certificate Number</u>	<u>Issue Date</u>
Coker 130	Applied for	
Coker 139	8700070	12/18/87
Coker 208	8300082	09/29/83
Coker 304	7700024	12/21/78
Coker 308	None	
Coker 310	7100021	01/18/74
Coker 315	8000087	12/18/80
Coker 320	Applied for	
Coker 420	7900087	01/29/80
Coker 3131	8100019	09/24/81
Exp. 84-828	None	
Exp. 610-8907	None	
KC-311	Applied for	
KC-380	8700069	06/30/87
McNair 210	7100090	06/24/74
McNair 220	7600077	07/19/77
McNair 235	None	
McNair 511	7200095	05/21/74
McNair 612	7400023	03/06/74

15. BOLLS:

Locules: 1 = 3-4
 2 = 4-5

NO. SEEDS PER BOLL

LINT PERCENT

MM. DIAMETER

Pitted: 1 = NONE
 2 = FINELY
 3 = COARSELY

GRAMS SEED COTTON PER BOLL

Breadth: 1 = BROADER AT BASE
 2 = BROADER AT MIDDLE

Type: 1 = STORMPROOF (WESTBURN 70)
 2 = STORM RESISTANT (LANKART 57)
 3 = OPEN (DELTAPINE 16)

Shape: 1 = LENGTH < WIDTH
 2 = LENGTH = WIDTH
 3 = LENGTH > WIDTH

16. BRACTEOLAS:

Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

Teeth: 1 = FINE 2 = COURSE

Teeth: 1 = 3-4 2 = 5-7 3 = 8-10
 4 = OTHER (Specify) _____

17. YIELD: Compared to—

PERCENT LESS THAN

PERCENT MORE THAN Southeast only

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
 4 = PAYMASTER 111 5 = ACALA 1517-70
 6 = ACALA SJ-1 7 = LANKART 57

18. FIBER LENGTH (Complete one or more of the following and give the means):

SPAN LENGTH 50%

SPAN LENGTH 2.5%

STAPLE LENGTH 32nd INCHES

UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

MEAN LENGTH

UNIFORMITY RATIO (MEAN/U.H.M.)

U.H.M. LENGTH

19. FIBER STRENGTH AND ELONGATION:

1,000 P.S.I.

ELONGATION E₁

MICRONAIRE READING

YARN STRENGTH (Give test method)
 Min. Spin

STILOMETER T₀

STILOMETER T₁

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3. Tolerant

VERTICILLIUM WILT

FUSARIUM WILT

ROOT KNOT NEMATODE

BACTERIAL BLIGHT (Race 1)

ASCOCHYTA BLIGHT

PHYMATOTRICHUM ROOT ROT

RHIZOCTONIA

ANTHRACNOSE

RUST

OTHER (Specify) _____

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

BOLL WEEVIL

APHID

FLEAHOPPER

LEAFWORM

FALL ARMYWORM

GRASSHOPPER

LYGUS

PINK BOLLWORM

STINKBUG

THRIP

CUTWORM

SPIDERMITES

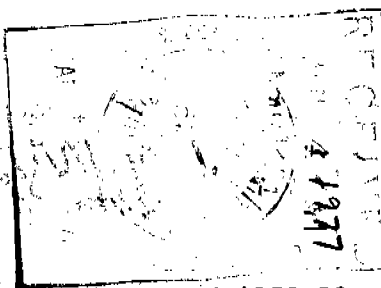
OTHER (Specify) _____

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.
- (2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)